

Smart School

Project:

Smart School (Phase 1 & 2)

Location:

6th of October

Project completion:

2010

Owner/s:

Smart Village Company

Main Contractor:

Orascom Construction

Applicator:

ThyssenKrupp (Xervon)
 Abuild

The Civil Consultant:

ECG

System Used :

- . Surface improvement System
- . Water Proofing System
- . Flooring System
- . Repairing System
- . Joint Sealant System



The background

The Smart Village hosts the most influential corporations and institutions in Egypt. Its consistent modern architecture, high technology infrastructure and vast landscape make it the most sought after business address. So far, Paradise Contracting has successfully accomplished two projects in Smart Village. Under the supervision of Egypt's finest General Consultant, E.C.G. (Egyptian Consultants Group),

Paradise Contracting provides The Egyptian Postal Service and The Smart Village School with their Computerized Irrigation Systems, high quality Softscape and unique interior plants. The successful projects are a collaboration with two of Egypt's distinguished General Contractors; Ginza for The Postal Service Project, and Orascom for the Smart Village School Project

The challenge

- The main aim for this Smart School is the Hygienic Concept for all Buildings in order to cope with the new Smart Kids Generation in the Future .
- All Laboratories , Corridors , Parking Areas are specified to be painted with a protective Epoxy Coating, Master Builders Solutions offered it's Epoxy coating system

- Need a fairing Cosmetic Coating for all Concrete Columns & repairing with a Thixotropic Product for the structural elements, Master Builders Solutions Offered a full Repairing System using EMACO Range .
- Need Anti-Fungus Joint Sealant for all wet Areas & all Expansion + Construction Joints , Master Builders Solutions Offers their Joint System Range .
- Need an excellent Water Proofing system for the Foundations & Wet Areas , Master Builders Solutions Offered two Systems one is Bituminous Damp Proofing for all Foundations & the Other is Cementitious Proofing for all Wet Areas .
- Need mortar Additives to enhance Bonding, Durability & Workability Master Builders Solutions offered two proposals in two different areas .
- Water Proofing & Hygienic Tilling system for all Wet Areas with high bond strength & Nil Permeability .





Our solution

- 1- For Hygienic Flooring in all Corridors ,Laboratories with a total area around 1,500 m2 , They used our Epoxy Protection System which Consists of Epoxy Primer(MasterTop 1200iM & top Epoxy floor finish MasterTop 1175 which is high build epoxy (Solvent free) Coating .
- 2- For Repair System :
Using the Emaco Range (Emaco R303M which is a fairing Cosmetic Fairing Coat that repairs the tolerance , pin holes for any Concrete within 2-5mm) & (Emaco S88 which is a Non-Shrinkage , thixotropic repair mortar , fiber polymer modified that possess excellent bond characteristics to steel reinforcement and to concrete. that subject to a repetitive Loading .
- 3- For Waterproofing system
Using two Different types of Proofing : A damp Proofing System using our Product MasterSeal 422 for all Foundations and a Cementitious Proofing System which is the Thoro Range Thoroseal FX-122 which is now called MasterSeal 599 for proofing all wet areas .
- 4- For Mortar Additives :
Using Master Builders Solutions Products Rheomix 141 which is SBR that gives a high Bond Strength & Rheomix 720 which is a Liquid Plasticizer that gave a high Workability to the Mortar

- 5- Using Tilling System:
Using our Tilling System MasterTile 30M for adhesive & MasterTile 530M for Grouting for an area about 4,000m2
- 6- Using Our Product Sonolastic NP1 with it's Backing Rod MasterSeal Support Strip for Sealing the joints to perform as Anti-Fungus & Hygienic Sealant

Customers Benefit

The Client was satisfied with the performance of MASTER BUILDERS SOLUTIONS products, as per the many contractors work in the project the main common item with them is using MASTER BUILDERS SOLUTIONS product in all ranges

Project used Material:

- MasterKure 101
- MasterSeal 422
- MasterRheomix 720
- MasterTile 30M
- MasterEmaco S-88
- MasterEmaco R303M
- Sonolastic NP1
- MasterTop 1175
- MasterSeal 599
- MasterFlow 928M





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Master Builders Solutions is built on the experience gained from more than a century in the construction industry. At the core of the Master Builders Solutions brand is the combined know-how and experience of a global community of MBCC construction experts, who connect with you to solve all of your construction challenges.

Further information is available at:

<https://www.master-builders-solutions.com/en-eg>

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